

FIG. 1

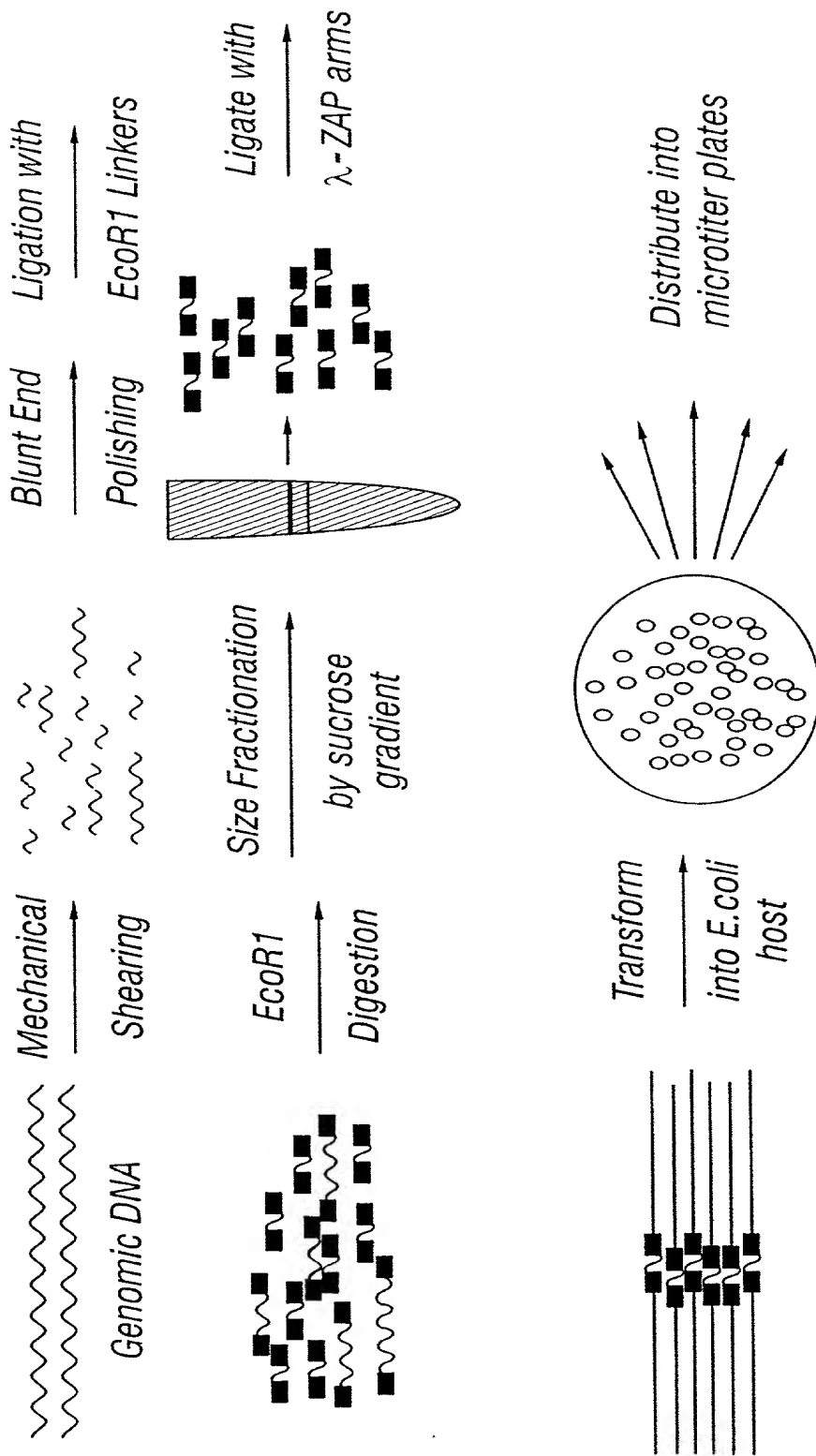


FIG. 2

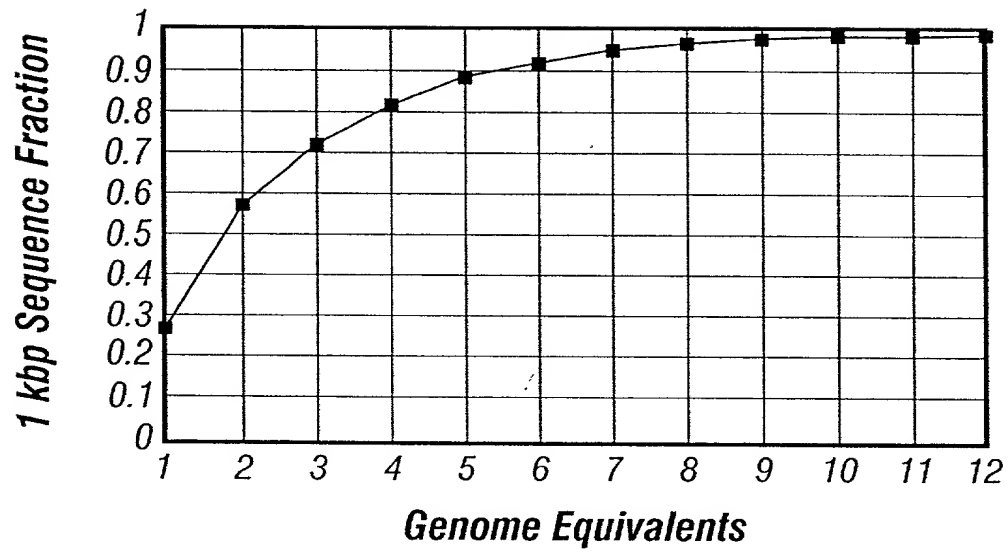
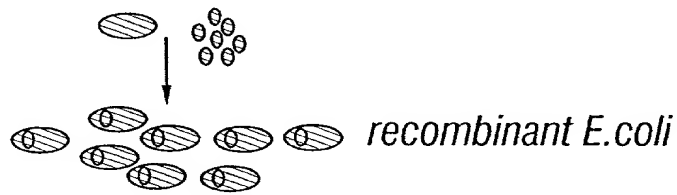


FIG. 3

Cell sorting to screen for recombinant
enzymes

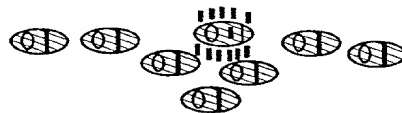
excise λ library into *E.coli*



add enzyme substrate



recombinant enzyme
cleaves substrate
to make cells fluorescent



sort



FIG. 4

β -Gal clone with different substrates

- cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.
- bright spot indicates staining of cells



FDG

C12FDG

CMFDG

FIG. 5

6/16

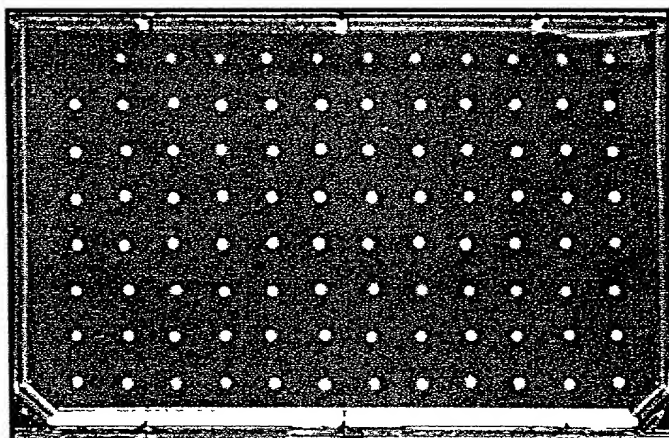


FIG. 6

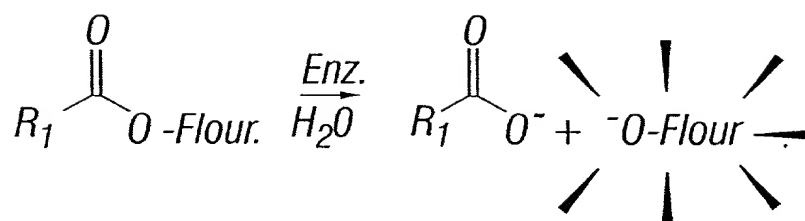


FIG. 7



FIG. 8

10050 1534260

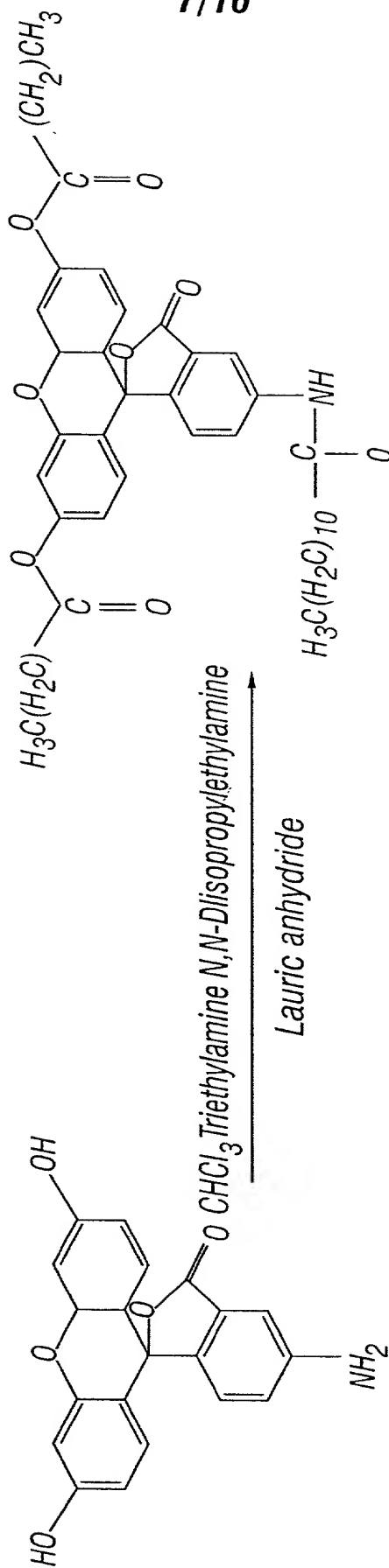


FIG. 9

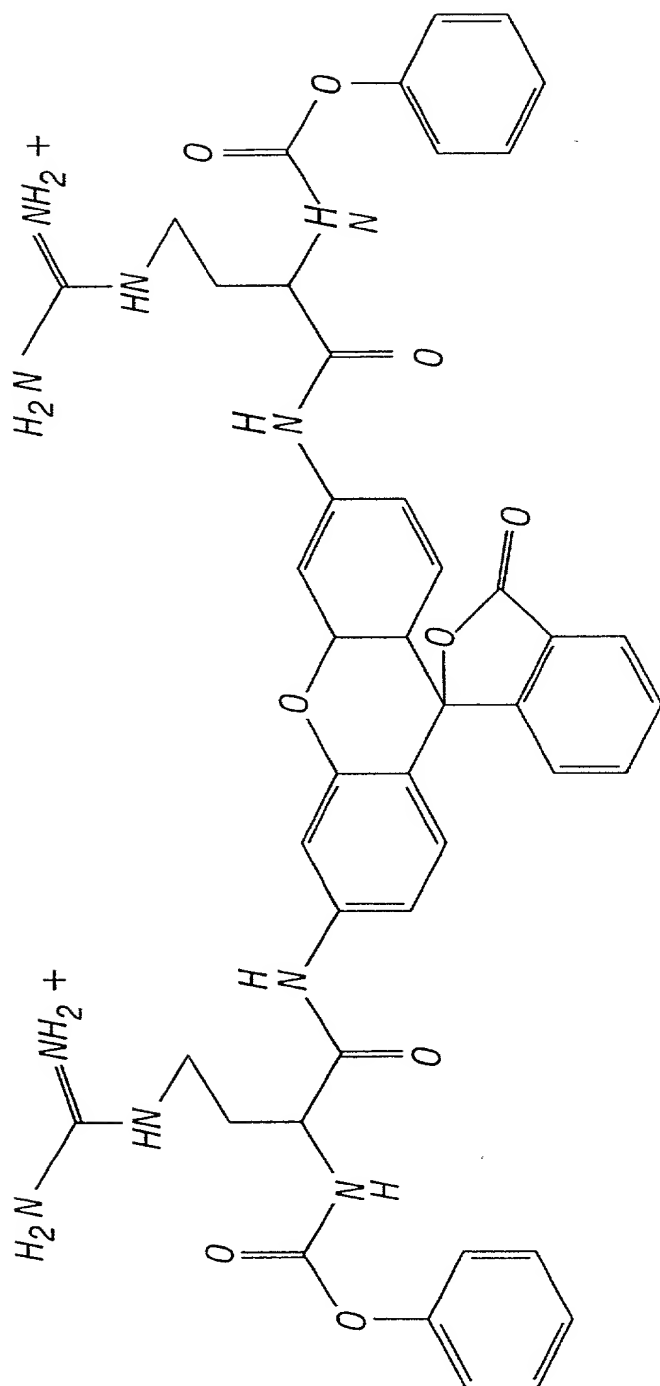


FIG. 10

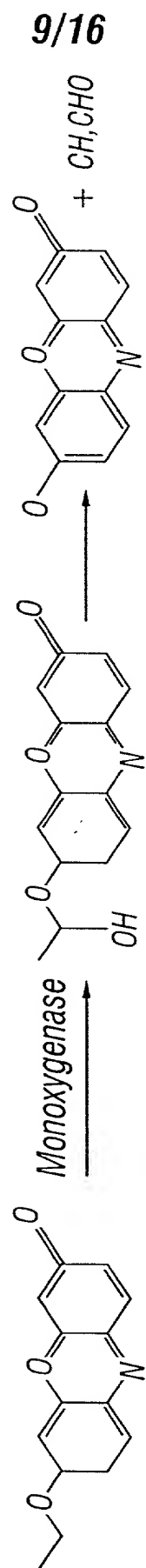


FIG. 11

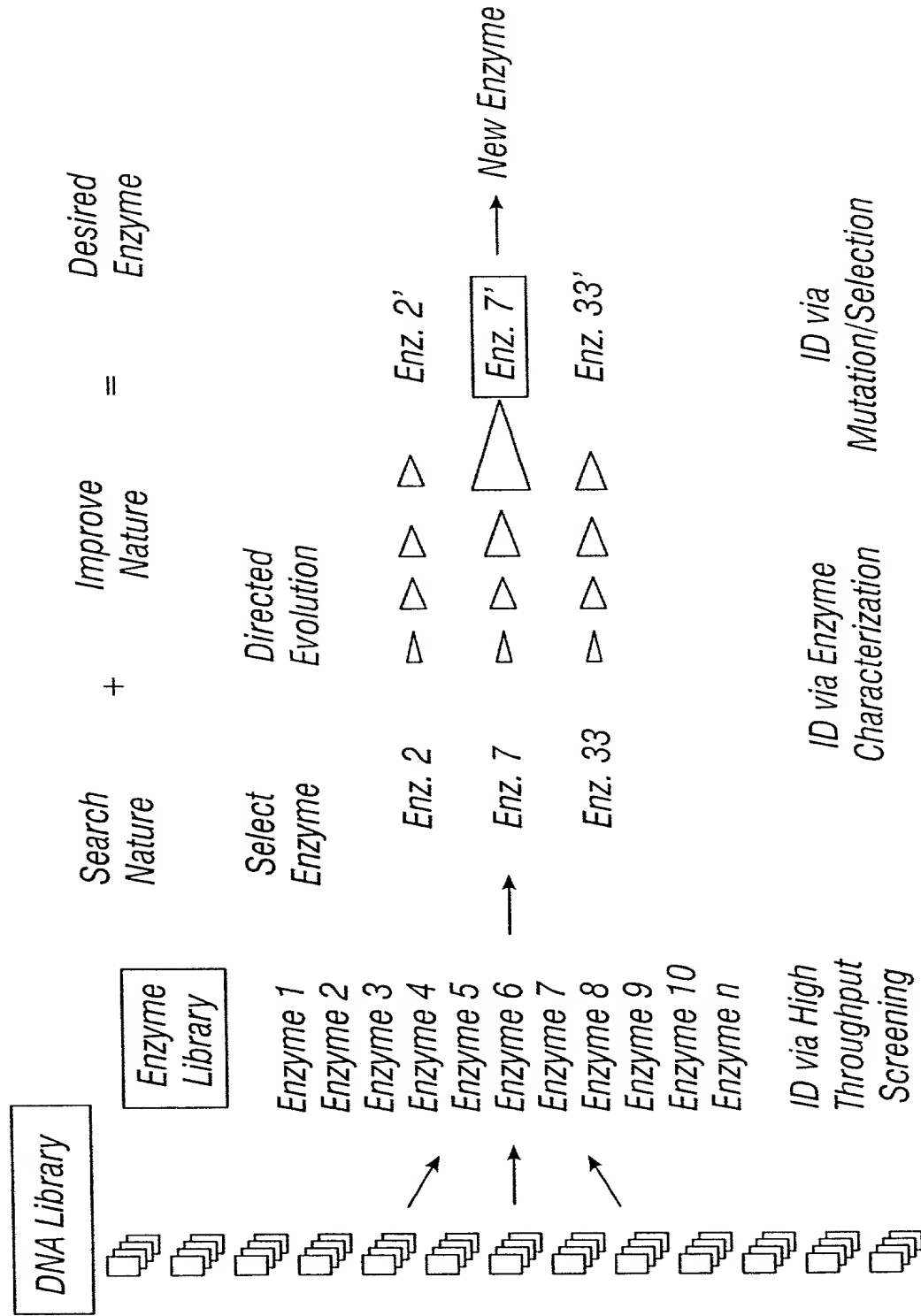


FIG. 12

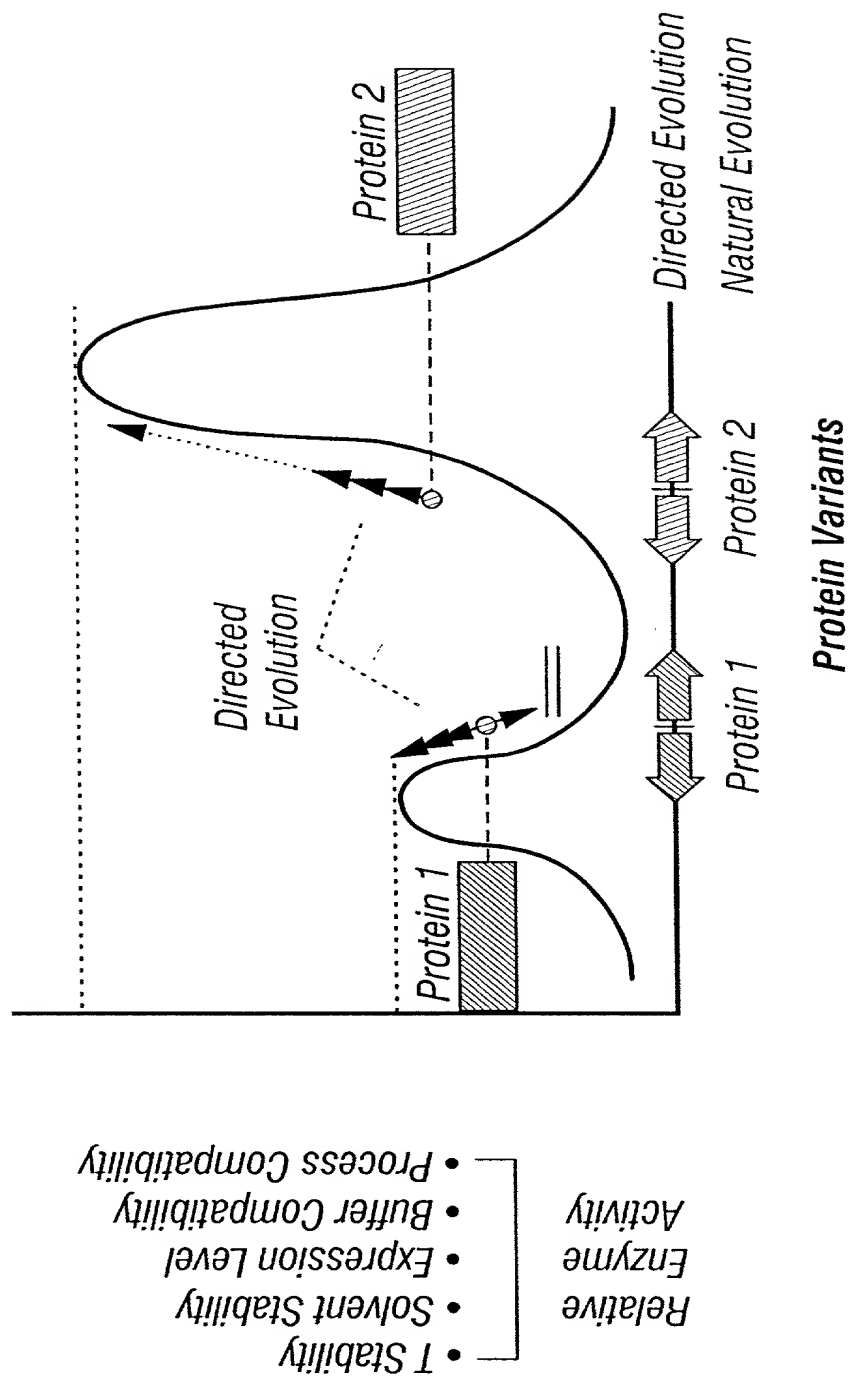


FIG. 13

12/16

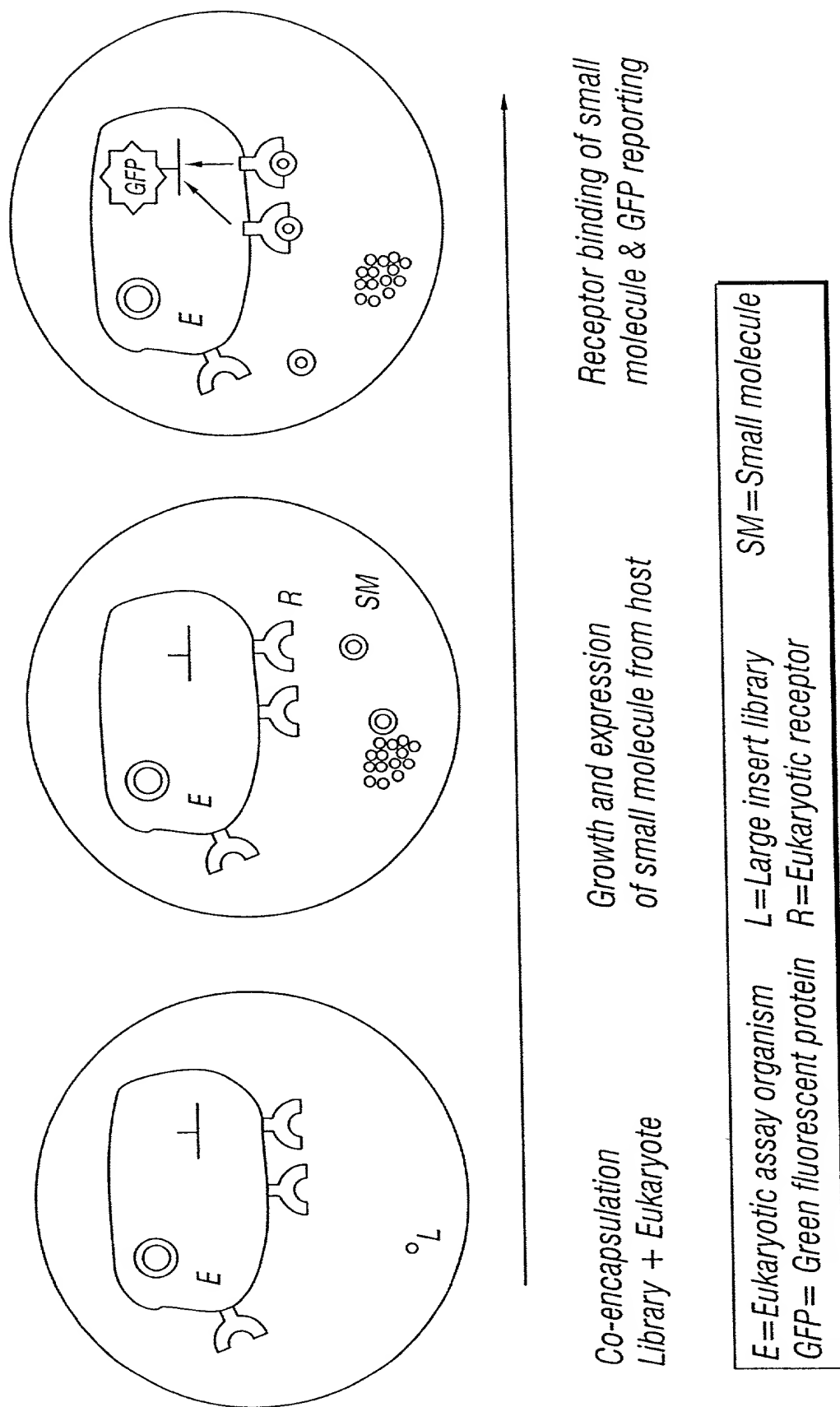


FIG. 14

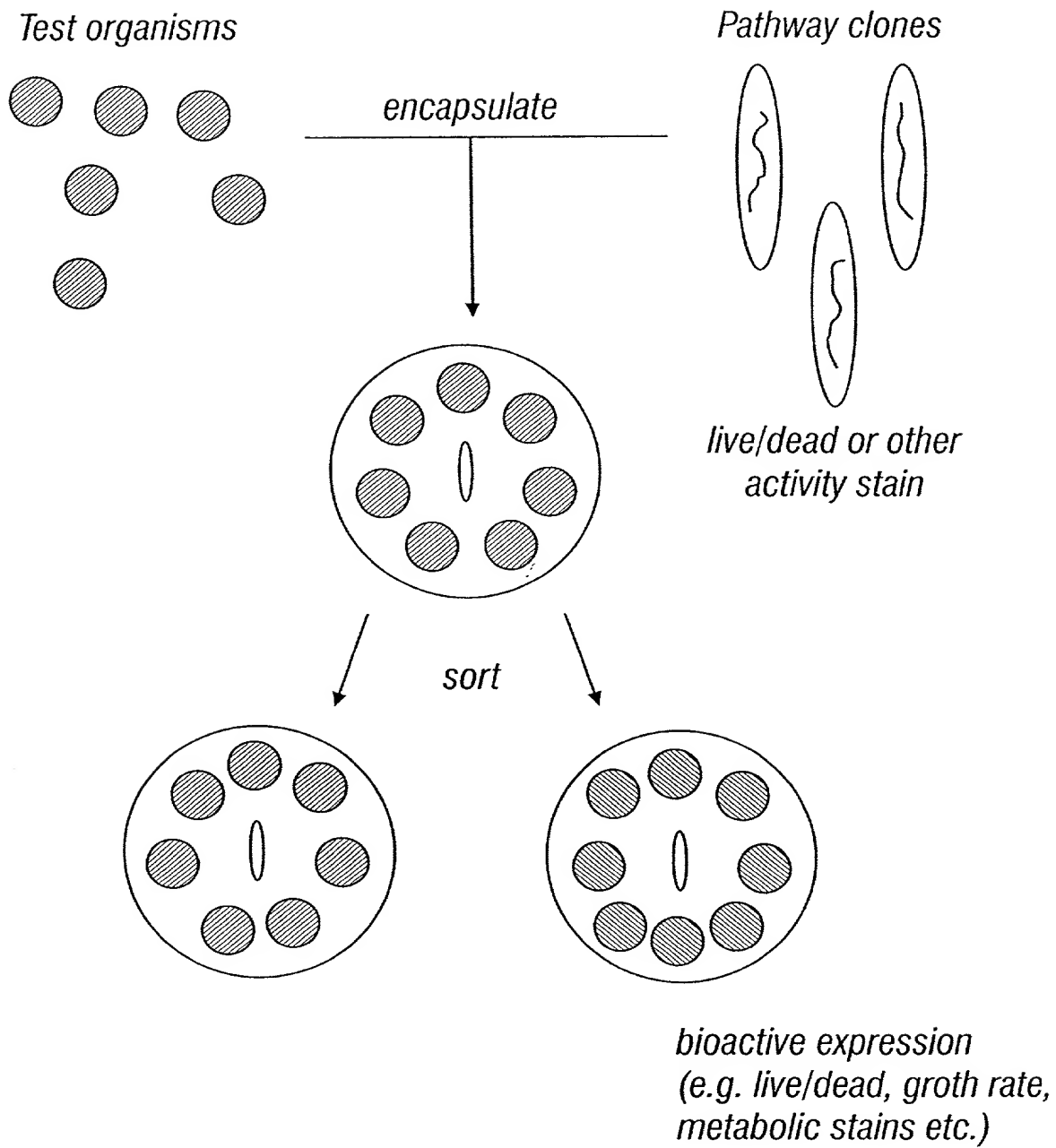
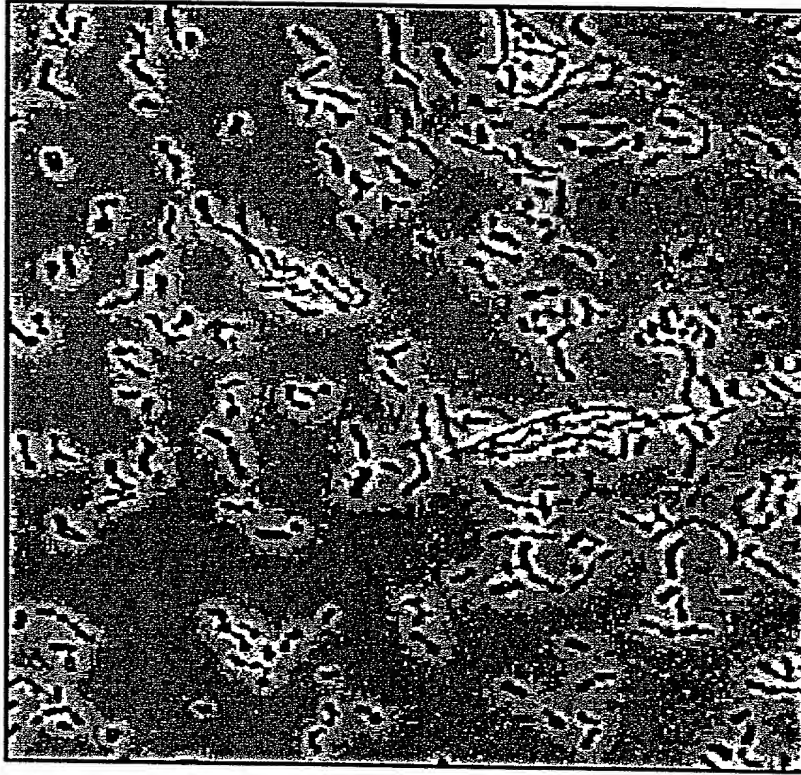
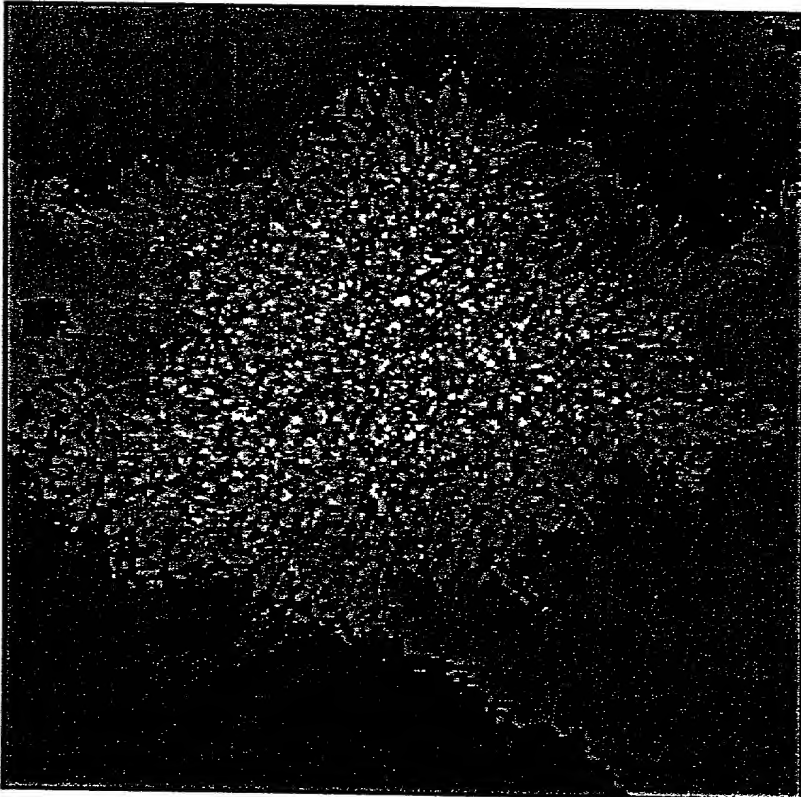


FIG. 15



Streptomyces "diversa"
Unicells



Streptomyces lividans
mycelia

FIG. 16

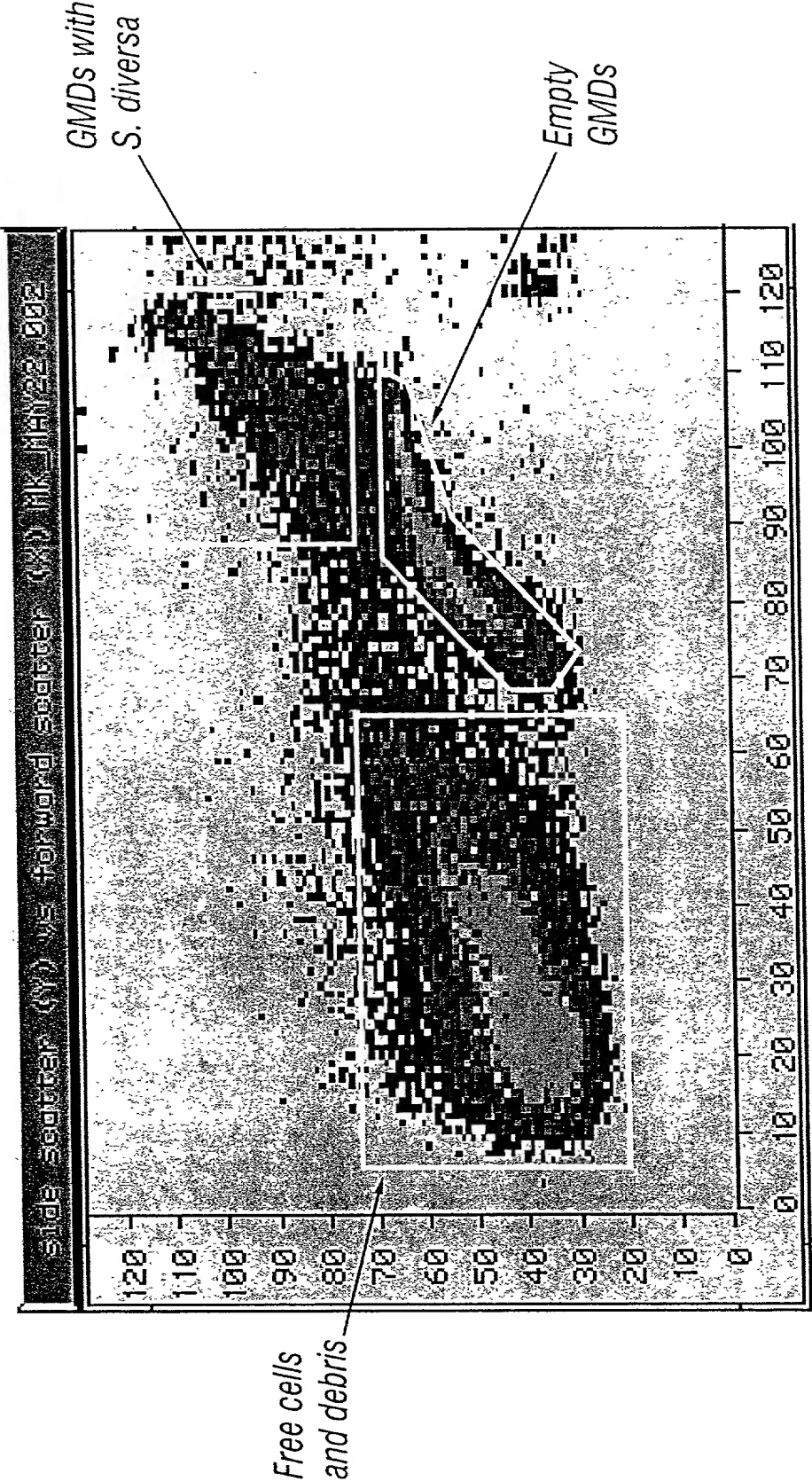


FIG. 17

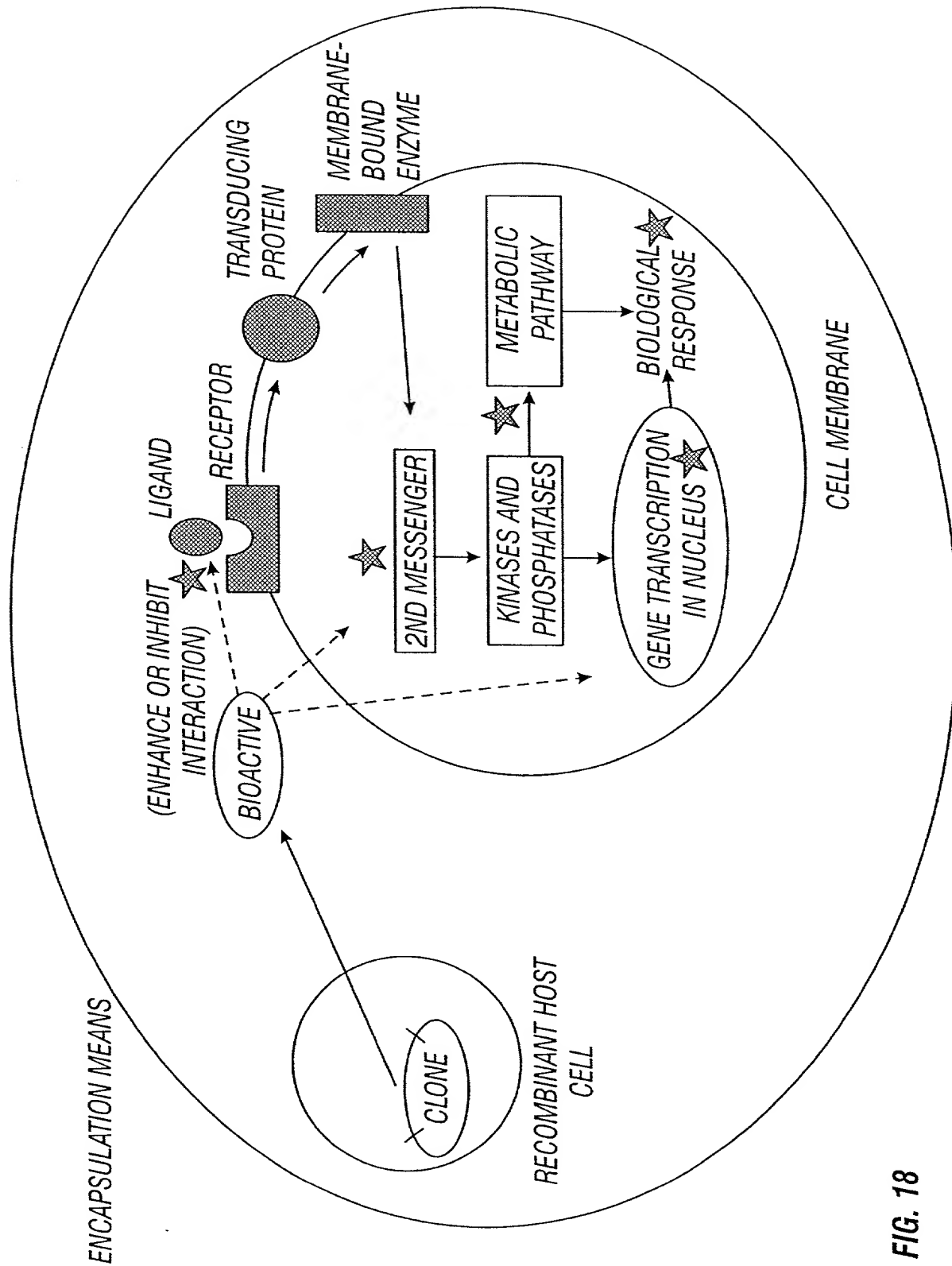


FIG. 18